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Research Report - 03



Theta rhythm (emotion) and the alpha rhythm (attention)

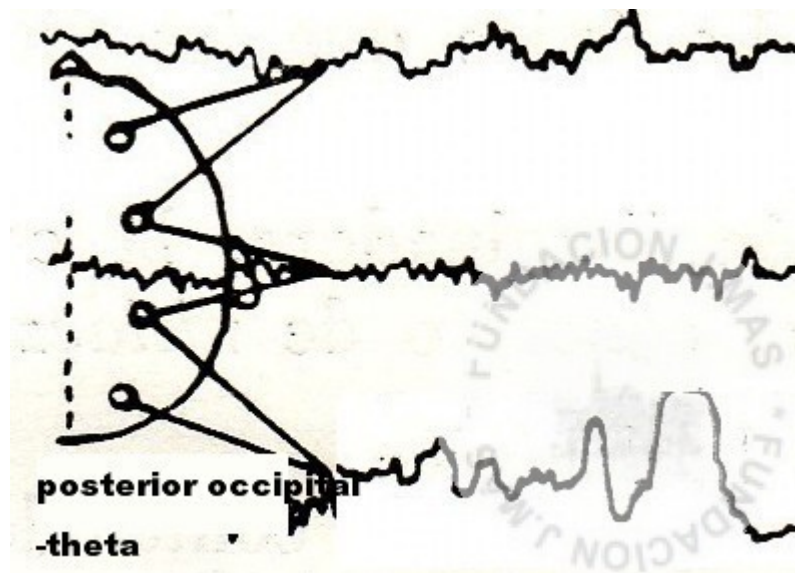
Annotation of interest:

These reports are a very brief summary of the research fieldwork. The whole research with numerous extensive and relevant content, to be published when the research field has been completed.

We thank to Emotiv (epoc), for its excellent interface which provides a very extensive way the research field-

Theta rhythm (emotion)

Theta rhythm, in a non-pathological and in normal adults, this rate has been linked to certain psychological activities, known as the rhythm of emotion.



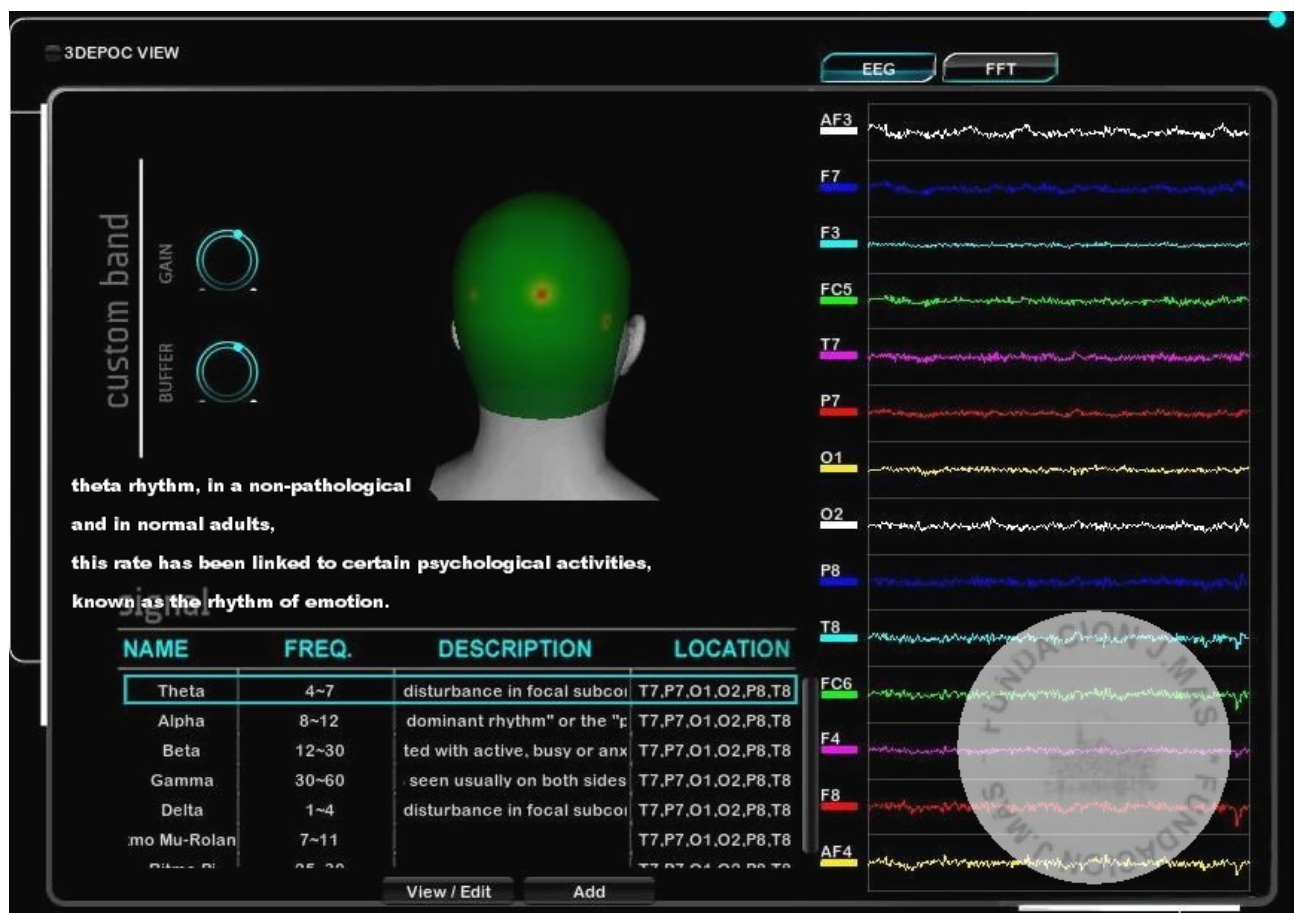
Theta rhythm was first isolated by Grey Walter, this frequency band between 7 and 4 c / sec. It is a form of sine rate, and voltage, usually higher than the alpha, as we were showing in the report 01, the theta rhythm shows a preference in the mature stage of EEG in childhood, being a source synchronous outbreaks subcortical and bilateral EEG child shows increased production in the middle regions of the brain.

Considering the age of the person can show features of bioelectric immaturity, but we must consider not only the age of the person but also the extent, topography and theta rhythm as the sample reactivity in response to specific stimuli test EEG

We should mention that the theta rhythm in hyper-synchronous discharges, bilateral and diffuse show based organic dysfunction, presumably at the thalamus-hypothalamus.

It is also mentioned that a theta rhythm localized sharp wave morphology, rhythm theta pointed understood as an alteration underlying cortical irritant.

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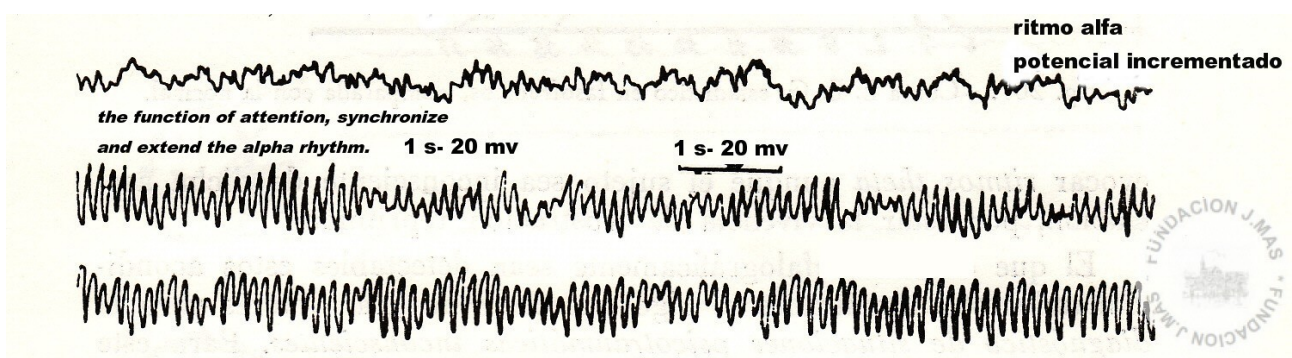
It should be remembered as explained in the report 01, which in earlier ages, there is a progressive predominance of theta rhythm initiated in the posterior regions moving toward the middle.

When it reaches adulthood, the brain biorhythms are stabilized on the individual characteristics in terms of psycho-physical rest with simple sensory reactivity with the disappearance of slow waves following (under the conditions described above)

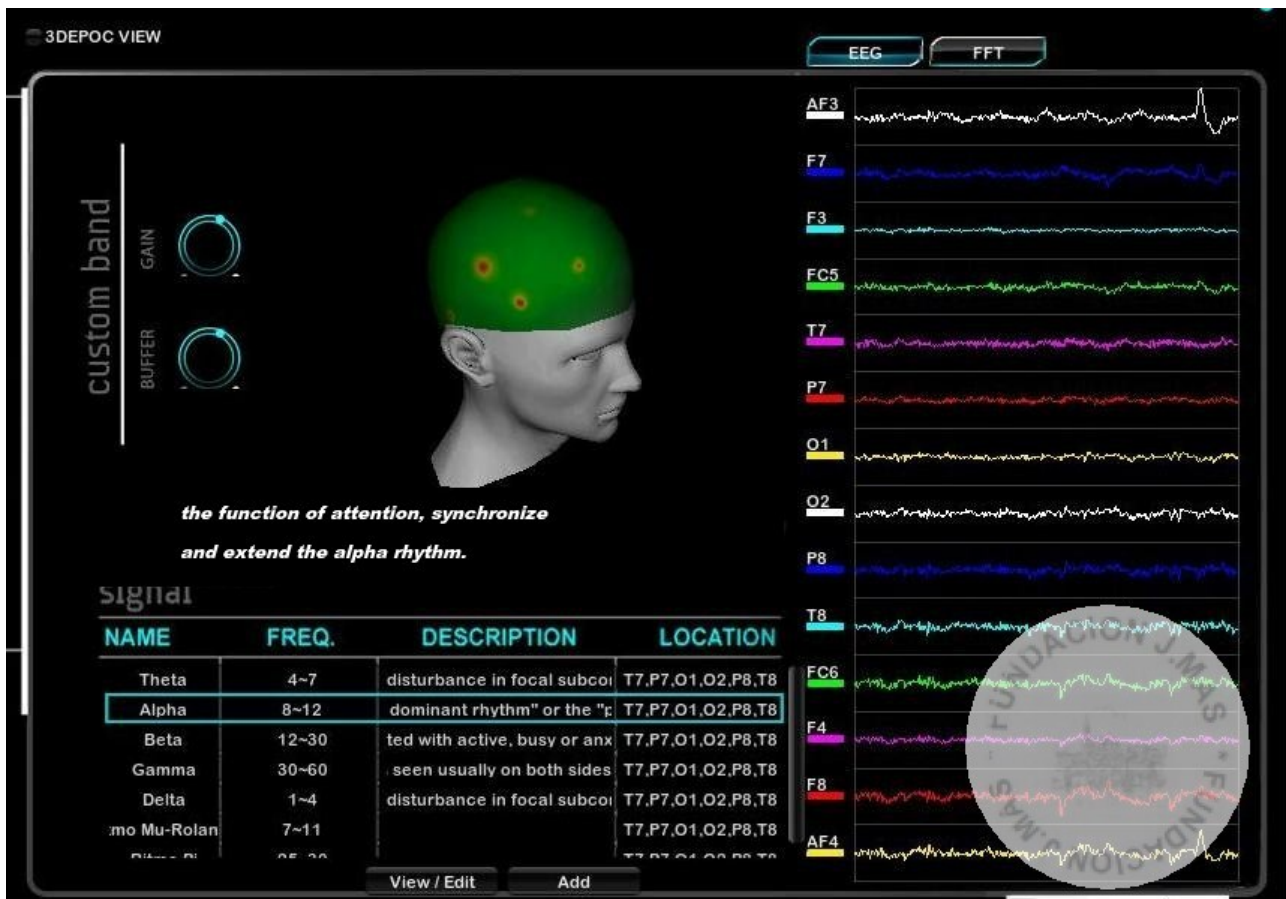
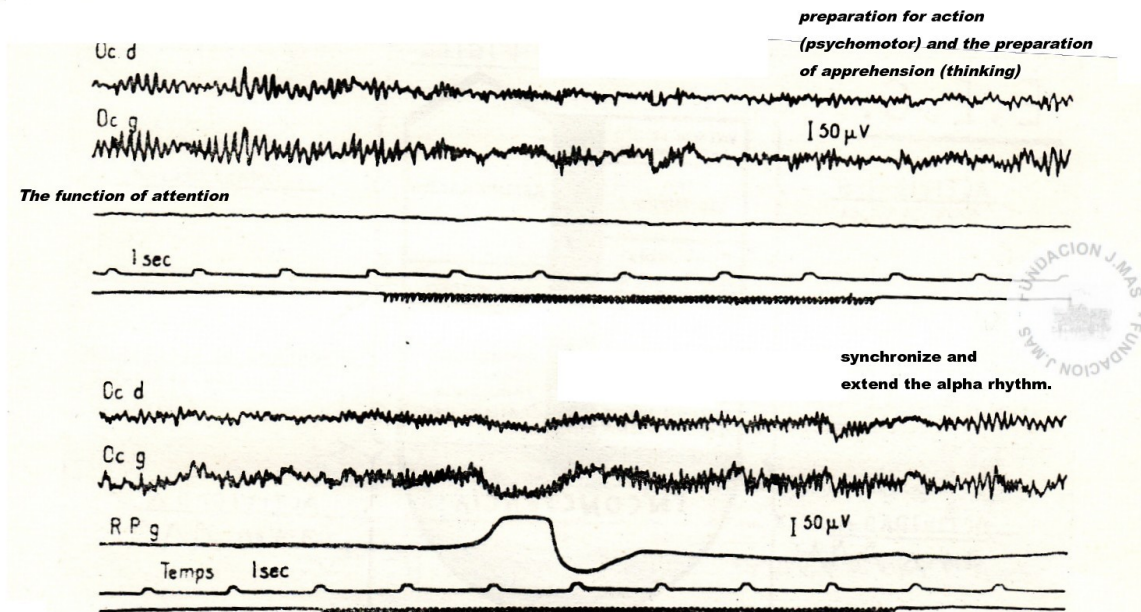
The theta and beta rolandic, amending consciously, in training exercises of relaxation and excitement, relaxation is observed during the initial occipital rhythm of 8 c / s and beta Roland 18 c / sec during the progress of relaxation is an increase of the alpha rhythm at 9 c / sec and the rolandic rhythm about 25 c / sec.

The function of attention

The function of attention, in preparation for action (psychomotor) and the preparation of apprehension (thinking), this function of action or function to apprehend, the alpha rhythm is blocked. However, in terms of the attention, does not cause blocking, but the function of attention, synchronize and extend the alpha rhythm. (these are data of great interest)



The function of attention causes an event paths intermittent light stimulation to the occipital, preparing to the attention of the light flashes, the amplitude increases alpha rhythm and synchronizes increase.



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